



STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
 ATTORNEYS AT LAW
 1100 NEW YORK AVENUE, N.W. • WASHINGTON, D.C. 20005-3934
 PHONE: (202) 371-2600 • FACSIMILE: (202) 371-2540 • www.skgf.com

ROBERT GREEN
 EDWARD J. KESSLER
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*LIMITED TO MATTERS
 AND PROCEEDINGS BEFORE
 FEDERAL COURTS & AGENCIES
 **REGISTERED PATENT AGENT
 ***SENIOR COUNSEL

July 23, 2001

WRITER'S DIRECT NUMBER:
 (202) 371-2637
INTERNET ADDRESS:
 KAREN@SKGF.COM

Commissioner for Patents
 Washington, D.C. 20231

Re: U.S. Utility Patent Application
 Appl. No. 09/720,086; Filed: December 20, 2000
 For: **De Novo DNA Cytosine Methyltransferase Genes, Polypeptides and
 Uses Thereof**
 Inventors: Li *et al.*
 Our Ref: 0609.4560002/JAG/KRM

Sir:

In reply to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office and the Notification to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures, dated May 21, 2001, Applicants submit the following documents for appropriate action by the U.S. Patent and Trademark Office :

1. PTO Fee Transmittal Form (PTO/SB/17);
2. Petition For Extension of Time Under 37 C.F.R. § 1.136(a)(1) (*in duplicate*);
3. Copy of the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office;
4. Copy of the Notification to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures;
5. Original Declaration, executed by inventors En Li and Masaki Okano;

09720086-0130

Commissioner for Patents

July 23, 2001

Page 2

6. Original Declaration, executed by inventor Shaoping Xie;
7. Paper and computer readable copy of Sequence Listing;
8. Request to Approve Proposed Drawing Corrections, along with 12 sheets of Figures hand-corrected in red ink (1A, 1B-1, 1C, 2A, 2B, 2C, 3A, and 3B);
9. Our check no. **31978** for \$ **55.00** to cover the extension of time fee under 37 C.F.R. § 1.136 (*small entity*); and
10. SKGF Return Postcard.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same. In accordance with 37 C.F.R. § 1.821(g), the submission of this sequence listing includes no new matter.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Karen R. Markowicz

Karen R. Markowicz
Agent for Applicants
Registration No. 36,351

07/26/2001 UEDUWIJE 00000037 09720086

01 FC:215

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KRM/pcd

Enclosures

Adjustment date: 09/27/2001
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<div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> OFFICE TRANSMITTAL for FY 2001 <small>Patent fees are subject to annual revision.</small> </div>		Complete if Known	
		Application Number	09/720,086
		Filing Date	December 20, 2000
		First Named Inventor	En Li
		Examiner Name	To be assigned
		Group Art Unit	To be assigned
TOTAL AMOUNT OF PAYMENT (\$55.00)		Attorney Docket No.	0609.4560002/JAG/KRM

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																																																																																																																		
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:</p> <p>Deposit Account Number: 19-0036</p> <p>Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.</p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p><input checked="" type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input checked="" type="checkbox"/> Other*</p> <p><small>*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.</small></p>	<p>3. ADDITIONAL FEES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large</th> <th>Entity</th> <th>Small</th> <th>Entity</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td>55.00</td></tr> <tr><td></td><td></td><td></td><td></td><td>116</td><td>390</td><td>216</td><td>195</td><td>Extension for reply within second month</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>117</td><td>890</td><td>217</td><td>445</td><td>Extension for reply within third month</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>118</td><td>1,390</td><td>218</td><td>695</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>128</td><td>1,890</td><td>228</td><td>945</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - 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unintentional						142	1,240	242	620	Utility issue fee (or reissue)						143	440	243	220	Design issue fee						144	600	244	300	Plant issue fee						122	130	122	130	Petitions to the Commissioner						123	130	123	130	Petitions related to provisional applications						126	180	126	180	Submission of Information Disclosure Stmt						581	40	481	40	Recording each patent assignment per property (times number of properties)						146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))						149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))						179	710	279	355	Request for Continued Examination (RCE)						169	900	169	900	Request for expedited examination of a design application	
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Name (Print/Type)	Karen R. Markowicz	Registration No. (Attorney/Agent)	36,351	Telephone	202-371-2600
Signature	<i>Karen R. Markowicz</i>			Date	7/23/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Li *et al.*

Appl. No. 09/720,086

Filed: December 20, 2000

For: **De Novo DNA Cytosine
Methyltransferase Genes,
Polypeptides and Uses Thereof**

Confirmation No. N/A

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 0609.4560002/JAG/KRM

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11/1/02**Request to Approve Proposed Drawing Corrections**Commissioner for Patents
Washington, D.C. 20231

Sir:

Attached are copies of 12 sheets of drawings, containing proposed corrections to Figures 1A (pages 1/36 and 2/36), 1B-1 (page 5/36), 1C (pages 9/36 and 10/36), 2A (page 17/36), 2B (page 18/36), 2C (page 19/36), 3A (page 21/36), and 3B (page 22/36), shown in red. The proposed corrections to the Figures reflect the corrected nucleotide and amino acid sequences for three of the four proteins of the invention. Applicants note that these corrections have been included in the Sequence Listing filed concurrently herewith.

The proposed changes add no new matter to this application because the correct sequences were inherent to the ATCC deposited clones, ATCC Deposit Nos. 209933, 209934, and 98809, which were deposited prior to the filing of the present application. In this regard, the specification states: "While the ATCC deposits are believed to contain the *de novo* DNA cytosine methyltransferase cDNA sequences shown in SEQ ID Nos:1, 2, 3, and 4, the nucleotide sequences of the polynucleotide contained in the deposited material, as well as the amino acid sequence of the polypeptide encoded thereby, are controlling in the event of any conflict with any description of sequences herein." Specification, page 16, lines 12-17.

The specific nucleotide and amino acid corrections made to the Figures (as well as the Sequence Listing filed concurrently herewith) are presented in the Table below:

FIGURE NUMBER	PAGE NUMBER	NUCLEIC OR AMINO ACID NUMBER	CHANGE FROM:	CHANGE TO:
1A	1/36	516	A	G (No change in amino acid)
1A	1/36	843	T	G
1A	1/36	1036	C	G
1A	1/36	1110	T	C (No change in amino acid)
1A	1/36	1116	T	C (No change in amino acid)
1A	2/36	1726	T	C
1B-1	5/36	918	T	G
1B-1	5/36	920	T	G
1C	9/36	1 - 123	Original nucleotides 1-123	Delete original nucleotides 1-123
1C	9/36	1063 (corrected 940)	C	G
1C	10/36	1599 (corrected 1476)	A	C
1C	10/36	1602 (corrected 1479)	A	C
1C	10/36	1693 (corrected 1570)	A	C (No change in amino acid)
1C	10/36	2147 (corrected 2024)	A	G
1C	10/36	2242 (corrected 2119)	A	G (No change in amino acid)
2A	17/36	209	D	E
2A	17/36	274	P	A
2A	17/36	504	F	L
2B	18/36	217	I	R
2B	18/36	218	Y	D
2C	19/36	237	H	Q
2C	19/36	416	H	P
2C	19/36	417	Y	S
2C	19/36	599	K	E
3A	21/36	209 (Dnmt3 α)	D	E
3A	21/36	274 (Dnmt3 α)	P	A

FIGURE NUMBER	PAGE NUMBER	NUCLEIC OR AMINO ACID NUMBER	CHANGE FROM:	CHANGE TO:
3A	21/36	217 (Dnmt3 β)	I	R
3A	21/36	218 (Dnmt3 β)	Y	D
3B	22/36	237 (DNMT3A)	H	Q
3B	22/36	416 (DNMT3A)	H	P
3B	22/36	417 (DMNT3A)	Y	S
3B	22/36	599 (DMNT3A)	K	E

A summary of these changes is presented below:

SUMMARY OF NO. OF NUCLEOTIDE/AMINO ACID CHANGES PER PROTEIN				
			No. Nucleotide Changes	No. Amino Acid Changes
Mouse Dnmt3a			6 (Fig. 1A)	3 (Fig. 2A)
Mouse Dnmt3b			2 (Fig. 1B-1)	2 (Fig. 2B)
Human DNMT3A			6 (Fig. 1C)	4 (Fig. 2C)

Applicants request that the Examiner approve the proposed corrections. After official communication of such approval, Applicants will make the appropriate corrections to the formal drawings.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Karen R. Markowicz
Agent for Applicants
Registration No. 36,351

Date: July 23, 2001

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

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